**pH and Temperature of Rain Water Collected around the School**

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| **Letter** | **pH** | **Temp** |
| A(under walkway) | 6.51 | 25.9 |
| B(by picnic table and tree) | 7.62 | 25.6 |
| C(under swing) | 7.92 | 26.5 |
| D (under swing) | 8.03 | 26.6 |
| E (in gutter) | 7.18 | 26.1 |
| F (under stairs) | 8.18 | 25.5 |
| G (green house) | 8.04 | 26.1 |
| H (rain gage) | 6.48 | 27.9 |
| I(fresh rainwater) | 8.42 | 20.6 |

The first thing that stands out about the graph and data is that there is no correlation between the pH and Temperature of the water. There are however pH levels which vary from 6.48 – 8.42 which is a bit odd as it was all rain water from the same day. This could suggest that there were things in the water which might have affected the pH, such as the mud, moss, leaves...etc. The temperature in general remained close to the same, varying but not much more than one degree C, until; the rain gage and fresh rainwater were tested. The rain gage had a temperature of 27.9 degrees C whereas the fresh rain water was 20.6 degrees C; as all of the other temperatures seemed to stay in the 25-26 degree range this was quite a significant drop in temperature. A possible explanation for this could be that all the other temperatures had been taken from water which had collected either on the ground outside or in a plastic rain gage, also outside. Which would have been exposed to the sun and heat before being tested so they would have had time to become warmer; whereas the fresh rainwater had been collected while it rained and was then kept indoors in a glass beaker. Another explanation could be that the ground may have been quite warm before the rain, so, as the rainwater collected, the heat of the surface or ground warmed the temperature before collection.